

AMENDMENT  
TO NON-PROVISIONAL UTILITY PATENT  
APPLICATION NO 10/ 626,888

Dated Jan. 7, 2010

TITLE OF INVENTION

Voice, Lip-reading, Face and Emotion Stress Analysis, Fuzzy Logic Intelligent  
Camera System

CLAIM OR CLAIMS

The embodiments of the invention in which an exclusive property is claimed  
are defined as follows:

Please delete claims 1 to 139 in their entirety.

Please amend this application to include the following "NEW" claims: 140 to 159.

1. A security camera means observational system comprising:
  - a) a local controller, hardware, software, firmware and fuzzy logic including wireless or wired communications interface for communicating with a central controller facility;
  - b) a camera audio and video recording device connected to said local controller for observing and recording and communicating to said central controller;
  - c) a central controller with hardware, software, firmware and fuzzy logic for database storage and analyses of images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings within view and listening of the said camera device as communicated from said camera devices;
  - d) a central controller with hardware, software, firmware and fuzzy logic for accessing both real-time data and historic data from related databases from sources of governments, of multimedia news agencies, of associated data for the purpose of conducting analyses for assessment and detection of threat or potential threat;

- e) an input device connected to said local controller for reading from or writing to magnetic or electronic storage data means and/ or a manually entering data means for input to said local controller;
  - f) an output device associated with said local controller for displaying visually or audibly or in printed means for presenting a selection of information and threat analysis results received from said central facility controller;
  - g) a camera movement device and interface to the local controller for three axis pointing, focusing/ zooming and turn on/ off control of the said camera device.
2. A system as defined in claim 1, said input device including a "closed circuit" security camera and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed.
3. A system as defined in claim 2, said sensors including a plurality of motion, heat, sound, vibration and air quality sensors for detection of people, animals, things or actions that are not of the regular normal occurrence or could pose a threat.
4. A system as defined in claim 3, said actions are such as not to normally occur and thus are unusual and in the security sense, warrant examination more closely, and said threat is a thing, person, animal, action, sound, speech or perpetrated act that could be interpreted as a danger to a place, person, thing, entity, government or country.
5. A system as defined in claim 2, said local controller including an input keyboard, key pad, touch screen manual device, a magnetic card or smart card reader/ writer, a display, a voice I/O interface, and interface means.

6. A system as defined in claim 2, said local controller including an output device being a computer video screen and speaker and indicator lights and printing means, magnetic or smart card recorder means, for providing or indicating information regarding validity or acceptance of a request for entrance or access or purchase based on analyses by said central controller.
7. A system as defined in claim 5, said magnetic card being a ticket including a magnetic strip on which can be recorded the place, event, date and access permitted the holder of said ticket.
8. A system as defined in claim 5, said magnetic card being a credit or identity card for purpose of identifying the cardholder and/ or allowing cardholder to access or attend a place and/ or event.
9. A system as defined in claim 5, said smart card being an electronic information or debit card for purpose of identifying the cardholder and/ or allowing cardholder to access or attend a place and/ or event.
10. A system as defined in claim 6, said printing means including printing on paper and/or printing on a ticket for access or attendance to a place and/ or event.
11. A system as defined in claim 10, said printing on said ticket including indication of no access or no attendance or no purchase using printing of wording such as "VOID".
12. A system as defined in claim 1, said central controller monitoring and storing in databases the information communicated by the local controller,

the data from the local camera and sensor means and analyzing this information and comparative information from related databases.

13. A system as defined in claim 1, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
14. A system as defined in claim 13, said central controller analyses accessing said related databases including sources of government systems, of multi-media news systems and of associated systems.
15. A system as defined in claim 1, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
16. A system as defined in claim 15, said central controller analyses accessing said "live" real-time related databases including sources of government systems, of multi-media news systems and of associated systems that are constantly and continuously being updated in real-time.
17. A system as defined in claim 1, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress,

actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing live real-time related database sources of visual data such as faces of persons, and/ or audio data such as speech, and/or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the existence of a threat or potential of a threat.

18. A system as defined in claim 17, said central controller analyses accessing said "live" real-time related databases including sources of government systems, of multi-media news systems and of associated systems that are constantly and continuously being updated in real-time.
19. A system as defined in claim 1, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress, actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing stored related database sources of stored previously of visual data such as faces of persons, and/ or audio data such as speech, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the existence of a threat or potential of a threat.

20. A system as defined in claim 19, said central controller analyses accessing said stored related databases including sources of government systems, of multi-media news systems and of associated systems.

21. A system as defined in claim 1, said security camera means system can include a plurality of such systems each of which can be observing the same or different said images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings and from the same or different locations, all of which can communicate with the said central facility controller.

22. A system as defined in claim 1, said central controller can communicate to the local controller of said camera means commands for said pointing focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera controls.

23. (Delete) A system as defined in claim 1, said central controller can communicate to any of said plurality of said security camera means systems' local controllers, as defined in claim 21, of said camera means, said commands for said pointing focusing/ zooming viewing direction, viewing zoom magnification and turn on/ off of camera and/ or controls.

24. (Delete) A system as defined in claim 1, said central controller can communicate to any of said plurality of said security camera means systems' local controllers, as defined in claim 21, for the said purpose of receiving observational data for storage, as defined in claim 12, and some of or all of said analyses as defined in claims 13, 14, 15, 16, 17, 18, 19 and 20.

25. (Delete) A system as defined in claim 1, said central controller can communicate to any of said plurality of said security camera means

systems' local controllers, as defined in claim 21, for the said purpose of receiving observational data for storage, as defined in claim 12, and some of or all of said analyses as defined in claims 13, 14, 15, 16, 17, 18, 19 and 20, with the results of said analyses said central controller can learn what is occurring in said observations by comparing observations from a plurality of the said security camera means such that the central controller can make decisions for said commands to be communicated to selected security camera means, as defined in claim 22, for the purpose of conducting more detailed observations thereby permitting the central controller to further conduct more detailed analyses.

26. (Delete) A system as defined in claim 1; said central controller, if from its said analyses as defined in claims 13, 14, 15, 16, 17, 18, 19 and 20, it has concluded that said actions or posed threat exists, the said central controller can communicate the actions or threat so concluded to the appropriate security personnel and facilities for which the system, as defined in claim 1, has been established.
27. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as a sports arena, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility, an entrance/ performance attendance ticket, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, having read the said information stored on said magnetic recording strip or recording means and observing from said sensor as defined in claim 3, information as defined in claim 4, for storage by the local controller, can carryout communications of said information to said central controller for recording and storage of said information and for said central controller to conduct analyses for determination whether to allow or deny entrance by the holder of said ticket after which, the said

actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing live real-time related database sources of visual data such as faces of persons, and/ or audio data such as speech, and/or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the existence of a threat or potential of a threat.

18. A system as defined in claim 17, said central controller analyses accessing said "live" real-time related databases including sources of government systems, of multi-media news systems and of associated systems that are constantly and continuously being updated in real-time.
19. A system as defined in claim 1, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress, actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing stored related database sources of stored previously of visual data such as faces of persons, and/ or audio data such as speech, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the existence of a threat or potential of a threat.



determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

28. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as a sports arena, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said ticket having a magnetic recording strip as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, or printing means as defined in claim 10 and claim 11, having read the said information stored on said magnetic recording strip or recording means for storage by the local controller and communications of said information to said central controller for recording and storage of said information and said central controller conducts analyses for determination of allowed alcohol limit after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6 and includes writing to the said magnetic recording strip or recording means or printing on said ticket with said printing means, the alcohol limit with the initial purchased alcohol amount indicating zero purchased.

29. (Delete) A system as defined in claim 1, located at a concession or sales facility, such as a beer selling counter, said system with a card reader as defined in claim 2 for the purpose of reading from said ticket having a magnetic recording strip as defined in claim 7, the said information stored on said magnetic recording strip for storage by the local controller and said system with an input device as defined in claim 5 for entry of and/ or request by said holder of said ticket for the purchase of a specific amount of alcohol, such as beer, and the communications of said information to said central controller for recording and storage of said information can carryout analyses for determining total amount of alcohol purchased including current request and all previous requests recorded to that ticket and using fuzzy logic comparing said total to limit amount recorded on

said ticket can determine to allow or deny, according to being under or over said limit, the said purchases by the holder of said ticket after which said determination is communicated by the central controller to the local controller for display on output devices as defined in claim 6 including, if purchase is denied, printing "VOID" on the said ticket and/ or recording "NO SALE" on the said magnetic strip of said ticket and/ or displaying "NO SALE" on said output computer video display screen, and/ or in voice over said speaker saying "NO SALE", and said central controller also communicated to local controller of a camera means defined in claim 1, which is located such that it is capable of observing the seat location indicated on said ticket.

30. A system as defined in claim 2, said input device including a "closed circuit" security camera and microphones such that the microphones are arranged so that one detects sounds originating in from front of the camera and the other detects sounds originating from behind the camera.
31. (Delete) A system as defined in claim 1 with said microphones as defined in claim 2 and claim 30 interfaced to said local controller defined in claim 2, with said local controller having fuzzy logic capable of detecting sound from said microphones said local controller can determine the direction of said sound and with such determination the local controller being able to command the said camera means controls for pointing, focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera said local controller can command the said camera means to observe what is in the direction from which the sound originated and to report those observations to the said central controller defined in claim 1.
32. (Delete) A system as defined in claim 1 with said microphones as defined in claim 30 interfaced to said local controller defined in claim 2, with said local controller having fuzzy logic capable of detecting sound from said

microphones can communicate that sound to the central controller for analyses determining the speech, text, and meaning of key phrases and words, such as "bomb" and if such analyses detects a threatening phrase or word, the central controller fuzzy logic can decide to instruct the local controller to command the said camera means controls for pointing, focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera with which said commands the said camera means can observe what action or actions is or are occurring in the direction from which the text originated and to report those observations to the said central controller defined in claim 1.

33. A system as defined in claim 1, said local controller incorporates part or all of said central controller functions and capabilities such that the said camera means could be a stand alone complete Camera System means utilizing microelectronic designs, circuitry miniaturization and solid state memory systems.
34. A system as defined in claim 1, said local controller utilizing fuzzy logic and microelectronic designs, circuitry miniaturization and solid state memory systems, incorporates part or much of the said central controller functions and capabilities such that the said camera means becomes more independent from the central controller and capable of conducting much of the analyses and response function directly.
35. (Delete) A system as defined in claim 1, said central controller with analysis fuzzy logic and methods as defined in claims 12, 13, 14, 15, 16, 17, 18, 19, and 20, with these intelligent said analyses means can interpret those data stored in the said databases of the speech and facial observations made by said camera means and communicated by said local controller, to the said central controller for identification by said central controller of person or persons and/ or activities for potential threat

and by using said analysis comparisons to related databases of audio, visual and speech and text information to which the said central controller is connected via the Internet WEB, or by hardwired land, or telephonic, or wireless links the said Camera System means can learn of information of known terrorist person or persons and/ or known threats and can decide to continue searching in the data transmitted to the central controller by the local controller, said data from observations by the camera means, to detect such person, or persons or threats by matching the observations to the learned information and if so detected, can so inform security personnel and systems.

36. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as an airport or flight departure area or the like, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance identity card and/or flight passenger ticket, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said ticket or identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

37. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility such as an apartment building, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the

said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

38. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as a commercial building, said system with a card reader/writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.
39. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as a gated community, said system with a card reader/writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording

means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

40. (Delete) A system as defined in claim 1, located at the entrance or gate to a facility, such as a condominium, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

41. (Delete) A system as defined in claim 1, located at the entrance or gate to a high security facility, such as a detention or jail, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3,

information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

42. (Delete) A system as defined in claim 1, located at the entrance or gate to a secret operations facility, such as a research center or laboratory or document depository, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

43. (Delete) A system as defined in claim 1, located at the entrance or gate to a country or place, such as a border crossing or the like, said system with a card reader/ writer, as defined in claim 2, for the purpose of reading from said facility entrance/ identity card or passport, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from said sensors as defined in claim 3, information as defined in claim 4, for storage by the

local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

44. A system as defined in claim 1, located at the a vehicle parking facility for the purpose of observation of activities such as the drinking parties at athletic events, often called "Tail-Gate" parties, occurring in that parking facility to monitor the alcoholic drinking before and/ or after performances at arenas and the like, for the detection of alcohol abuse and its potential threat to the public, and/ or to fans at the arenas and/or to the arena it self.

45. A security camera means observational system comprising:

- a) a local controller, hardware, software, firmware and fuzzy logic including wireless or wired communications interface for communicating with a central controller facility;
- b) a camera audio and video recording device connected to said local controller for observing and recording and communicating to said central controller;
- c) a central controller with hardware, software, firmware and fuzzy logic for database storage and analyses of images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings within view and listening of the said camera device as communicated from said camera devices;
- d) a central controller with hardware, software, firmware and fuzzy logic for accessing both real-time data and historic data from related databases from sources of governments, of multimedia



- news agencies, of associated data for the purpose of conducting analyses for assessment and detection of threat or potential threat;
- e) an input device connected to said local controller for reading from or writing to magnetic or electronic storage data means and/ or a manually entering data means for input to said local controller;
  - f) an output device associated with said local controller for displaying visually or audibly or in printed means for presenting a selection of information and threat analysis results received from said central facility controller;
  - g) a camera movement device and interface to the local controller for three axis pointing, focusing/ zooming and turn on/ off control of the said camera device.

46. A system as defined in claim 45, said input device including a "closed circuit" security camera and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed.

47. A system as defined in claim 46, said local controller including an input keyboard, key pad, touch screen manual device, a magnetic card or smart card reader/ writer, a display, a voice I/O interface, and interface means.

48. A system as defined in claim 46, said local controller including an output device being a computer video screen and speaker and indicator lights and printing means, magnetic or smart card recorder means, for providing or indicating information regarding validity or acceptance of a request for entrance or access or purchase based on analyses by said central controller.

49. A system as defined in claim 47, said magnetic card being a ticket including a magnetic strip on which can be recorded the place, event, date and access permitted the holder of said ticket.
50. A system as defined in claim 48, said printing means including printing on paper and/or printing on a ticket for access or attendance to a place and/or event.
51. A system as defined in claim 50, said printing on said ticket including indication of no access or no attendance or no purchase using printing of wording such as "VOID".
52. A system as defined in claim 45, said central controller monitoring and storing in databases the information communicated by the local controller, the data from the local camera and sensor means and analyzing this information and comparative information from related databases.
53. A system as defined in claim 45, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the level of sobriety due to drug or alcohol use and the existence of a resulting threat or potential threat.
54. A system as defined in claim 53, said central controller analyses accessing said related databases including sources of government systems, of multi-media news systems and of associated systems.

55. A system as defined in claim 45, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress, actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing stored related database sources of stored previously of visual data such as faces of persons, and/ or audio data such as speech, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the level of sobriety due to drug or alcohol use and the existence of a resulting threat or potential of a threat.
56. A system as defined in claim 55, said central controller analyses accessing said stored related databases including sources of government systems, of multi-media news systems and of associated systems.
57. A system as defined in claim 45, located at roadside policing and inspection arrangements such as the "RIDE, reduce impaired driving everywhere" programs for the detection of vehicle driver alcoholic intoxication or drug abuse for the purpose of detecting potential threat to the public, to property and to the driver himself.
58. A system as defined in claim 57, for which the reading means defined in claim 5, reads a said magnetic card or smart card, said card being a driver's license.
59. A system as defined in claim 47, said magnetic card or smart card being a driver's license.

60. A system as defined in claim 45, for the detection and analyzes of alcohol or drug intoxication or impairment of a person or persons for the detection of person or persons as a potential threat to the public and/or to property and/or to themselves.
61. A system as defined in claim 45, said central controller with analysis fuzzy logic and methods, with these intelligent said analyses means can interpret those data stored in the said databases of the speech and facial observations made by said camera means and communicated by said local controller, to the said central controller for identification by said central controller of person or persons and/ or activities for potential threat as indicated in claim 60 and by using said analysis comparisons to related databases of audio, visual and speech and text information to which the said central controller is connected via the Internet WEB, or by hardwired land, or telephonic, or wireless links the said Camera System means can learn of information of known levels of said alcohol or drug intoxication or impairment such that the said Camera System means can determine and establish visual response measures as standard sets of levels of such intoxication or impairment.
62. A system as defined in claim 60, said analyzes determining a level of intoxication or impairment so as to assign a numerical value to said level, as an indication within a standard set of said levels as to the said intoxication or impairment of the person or persons similar to the application of breathalyzer standards used to describe the level of alcohol intoxication as determined by chemical measure of the breath of a person.
63. A system as defined in claim 60, for which the said central controller with analysis fuzzy logic and methods, with these intelligent said analyses means can interpret those data stored in the said databases of the speech and facial observations by said camera means communicated by said

local controller, to the said central controller for identification by said central controller of person or persons and/ or activities for potential threat and by using said analysis comparisons to related databases of audio, visual and speech and text information to which the said central controller is connected via the Internet WEB, or by hardwired land, or telephonic, or wireless links the said Camera System means can learn to compile a profile describing the level of drug or alcohol intoxication of the observed person or persons and can thus assess and assign a numerical description of that level from analyses of the said data from observations by the camera means of the said person or persons and can communicate the said determined level to the local controller for display so as to inform appropriate personnel and systems.

64. A system as defined in claim 45, located at the entrance or admissions to a hospital or health facility such as a clinic or the like.
65. A system as defined in claim 64 for the detection of health related problems such as heart attack, diabetic or epileptic seizure, drug use or abuse, drunkenness and the like.
66. (Delete) A system as defined in claim 45, located at the entrance or gate to a hospital or health facility, such as a clinic or the like, said system with a card reader/ writer, as defined in claim 46, for the purpose of reading from said facility entrance/ identity card or health insurance card, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said sensors, information for storage by the local controller and communications of said information to said central controller for recording and storage of said information and for said central controller to conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination

is communicated by the central controller to the said local controller for display on output devices as defined in claim 48.

67. A system as defined in claim 47, said magnetic card or smart card being a health or insurance card.

68. A system as defined in claim 54, said multi-media news systems include printed media such as newspapers, reports, magazines; also include electronic versions of printed media; also include WEB internet source media; also include radio and television broadcasts, for both real-time "live" access and stored/ retrieved database linkages.

69. A system as defined in claim 45, located at a beer parlor or bar for policing and inspection arrangements such as the "RIDE, reduce impaired driving everywhere" programs for the detection of potential vehicle driver alcoholic intoxication or drug abuse for the purpose of detecting the level of said intoxication or impairment due to alcohol or drug abuse and the potential threat to the public, to property and to the driver himself.

70. A system as defined in claim 69, located at a nightclub.

71. A system as defined in claim 69, located at a restaurant licensed to sell alcohol.

72. A system as defined in claim 69, located at a rental hall licensed to sell alcohol.

73. A system as defined in claim 46, one of said sensors being a GPS, geo-positioning system, location sensor with interface to the local controller for mobile applications for the determination of location and retrieval of such parameters from the GPS.

74. (Delete) A system as defined in claim 45, located at the entrance or gate to a country or place, such as a border crossing or the like, said system with a card reader/ writer, as defined in claim 46, for the purpose of reading from said facility entrance/ identity card or passport, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said plurality of said camera means and sensors, information, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said plurality of camera means being arranged so as to observe the occupants in several vehicles including the vehicle closest to the said gate or entrance.
75. (Delete) A system as defined in claim 45, located at a line of vehicles, such as at roadside policing and inspection arrangements such as the "RIDE, reduce impaired driving everywhere" programs for the detection of vehicle driver alcoholic intoxication or drug abuse or the like, said system with a card reader/ writer, as defined in claim 46, for the purpose of reading a drivers license, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said plurality of said camera means and sensors, information, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said plurality of camera means being arranged so as to observe the occupants in several vehicles including the vehicle closest to the said policing and inspection arrangements.
76. A system as defined in claim 69, located in a vehicle.

77. A system as defined in claim 76, said system including sensors, fuzzy logic analyses and interfaces to the vehicle systems to monitor and control vehicle components such as ignition, fuel, starter and the like and analyses to detect attempts to interfere or tamper with said systems including the camera means system.
78. A system as defined in claim 76, said system including fuzzy logic capable of viewing and storing facial images in the database memory of local controller.
79. (Delete) A systems as defined in claim 76, including fuzzy logic capable of facial analyses to determine if current viewed facial image matches one of the stored facial images as defined in claim 77 and if not so matched said fuzzy logic capable of disabling one or more of said vehicle components.
80. A system as defined in claim 78, said non matching facial analysis condition if or when determined, the condition and the vehicle's GPS location is reported report by wireless communications to the central controller for notification to the proper authorities and the said system can disable said vehicle.
81. (Delete) A system as defined in claim 76, including fuzzy logic capable of analyses determining the impairment as defined in claim 60 and the level of said impairment as defined in claim 62, of the person attempting to start or drive said vehicle and if or when said impairment is determined, the said level of impairment and the vehicle's GPS location is reported report by wireless communications to the central controller for notification to the proper authorities and the said system can disable said vehicle and said system can continue said analyses and said reporting.



82. A system as defined in claim 77, said system analyses having detected said attempts to interfere or tamper with said systems including the camera means system, if or when such interference or tampering is determined the said tampering and the vehicle's GPS location is reported report by wireless communications to the central controller for notification to the proper authorities and the said system can disable said vehicle.

83. (NEW) A system as defined in claim 1, said input device including a camera and/ or a "closed circuit" security camera which said camera can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed.
84. (Delete) A system as defined in claims 2, 3, and 83, said camera and said sensors including a plurality of motion, heat which could include static and/ or video observation and recording systems, sound, vibration and air quality sensors for detection of people, animals, things or actions that are not of the regular normal occurrence or could pose a threat.
85. (Delete) A system as defined in claims 1, 13, and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous video observations in one or more spectral ranges of any such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
86. (Delete) A system as defined in claims 1, 13, and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous video observations in one or more spectral ranges and

specifically of the visible and of the thermal far infrared ranges of any such as faces of persons and/ or the environment in which those persons are observed, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

87. (Delete) A system as defined in claims 1, 15 and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of video observations in one or more spectral ranges of any data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
88. (Delete) A system as defined in claims 1, 15 and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of video observations in one or more spectral ranges and specifically of the visible and of the thermal far infrared ranges of any data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
89. (Delete) A system as defined in claims 1, 21 and 83 said security camera means system can include a plurality of such systems with video

observations in one or more spectral ranges each of which can be observing the same or different said images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings and from the same or different locations, all of which can communicate with the said central facility controller.

90. (Delete) A system as defined in claims 2, 30 and 83 said input device including a "closed circuit" security camera which said camera can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum and microphones such that the microphones are arranged so that one detects sounds originating in from front of the camera and the other detects sounds originating from behind the camera.
91. (Delete) A system as defined in claims 1, 4, and 83 said input device can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters including but not limited to observing an individual person, animal, thing or action, groups of said people, animals things or actions, the recording of which parameters the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

92. (Delete) A system as defined in claims 1, 4, and 83 said input device can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters including but not limited to observing groups of said people, specifically; audiences, crowds and/ or audience and/ or crowd actions, and observing individuals that are connected to and/ or part of said group or crowd or audience, the recording of which parameters the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat and/ or riot and/ or public disturbance or violent behavior.
93. (NEW) A system as defined in claim 83 said input device can observe and record said observation in one or more spectral range, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters specifically one of which is the observation of the appearance and/ or actions, of a person with which parameters the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence, inference and/ or the measurement of levels of alcohol consumption, state of intoxication and/ or threat or potential threat and/ or public disturbance or violent behavior of said person.

94. (Delete) A system as defined in claims 3, 83, and 93 said input device can observe and record said observation in one or more spectral range, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters specifically one of which is the observation of the appearance and/ or actions, of a person from which parameters the system using fuzzy logic matches those aspects of the current observations including but not limited to the comparison of observations in the visible and thermal infrared heat range for the purpose of assessing the existence, inference and/ or the measurement of an aura and/ or image representations of that person relating to said person's level of alcohol consumption, state of intoxication and/ or threat or potential threat and/ or public disturbance or violent behavior.
95. (Delete) A system as defined in claims 83, and 93 said input device can observe and record said observations in one or more spectral range, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters one of which specifically is the observation of the appearance and/ or actions, of groups and/ or crowds of persons from which parameters the system using fuzzy logic matches those aspects of the current observations including but not limited to the comparison of observations in the visible and thermal infrared, for the purpose of assessing the existence, inference and/ or the measurement of an aura and/ or image representations of said persons and/ or crowds relating to the threat or potential threat and/ or public disturbance and/ or violent behavior and/ or riot or potential for riot from which said assessment, the system using

fuzzy logic matching those aspects of the current observations, predicts the level of said threat, disturbance, violent behavior or riot.

96. (Delete) A system as defined in claims 1, 2, 3, and 83 said camera and said sensors include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things.
97. (Delete) A system as defined in claims 1, 2, 3, and 83, said sensors including pressure sensitive mats, pads and switches for the detection of said occurrences and motion of the feet of said people, animals or things.
98. (Delete) A system as defined in claims 1, 13, 83, and 93 said central controller analysis includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous observations of the patterns, rhythm, cadence, frequency, and characteristics to determine and identify such foot motions and relationships to detect the condition, including but not limited to the physical, emotional, staggering, and intoxication levels of the particular person, animal or thing whose said foot motion is being detected.
99. (Delete) A system as defined in claims 83 and 93 in which said observations and recordings of said faces, voices, actions, said sensors include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things, are specifically applied to the environment of drinking establishments, bars, nightclubs, dance clubs and entertainment venues in which said observations and recordings are retained and/ or exchanged with other establishments for the purpose of identifying said people, individuals,

audiences, crowds and/ or their actions that could be a threat or potential threat and/ or riot and of public disturbance at said establishments.

100. (Delete) A system as defined in claims 1, 83 and 93 in which said observations and recordings of said faces, voices, actions, include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things and fuzzy logic analyses as apply to drinking establishments, bars, nightclubs, dance clubs, entertainment venues and sports venues in which said observations and recordings are retained and/ or exchanged with an established group or "POD" of similar such establishments where by patrons of one such "POD" establishment can be identified by other members of said POD, thereby allowing said members of the POD to be alerted to the identity of said persons, animals or things representing said threat of potential threat for which said members could take appropriate action against such persons, animals or things and/or the said threat or potential threat.

101. (NEW) A system as defined by a central controller can communicate to any of said plurality of said security camera means systems' local controllers, as defined in claim 21, of said camera means, said commands for said pointing focusing/ zooming viewing direction, viewing zoom magnification and turn on/ off of camera and/ or controls.

102 (NEW) A system as defined by a central controller can communicate to any of said plurality of said security camera means systems' local controllers, as defined in claim 21, for the said purpose of receiving observational data for storage, and some of or all of said analyses as defined in claims 14, 16, 18, and 20.



- 103 (NEW) A system as defined by a central controller can communicate to any of said plurality of said security camera means systems' local controllers, as defined in claim 21, for the said purpose of receiving observational data for storage, and some of or all of said analyses as defined in claims 14, 16, 18, and 20, with the results of said analyses said central controller can learn what is occurring in said observations by comparing observations from a plurality of the said security camera means such that the central controller can make decisions for said commands to be communicated to selected security camera means, as defined in claim 22, for the purpose of conducting more detailed observations thereby permitting the central controller to further conduct more detailed analyses.
- 104 (NEW) A system as defined by a central controller, if from its said analyses as defined in claims 14, 16, 18, and 20, it has concluded that said actions or posed threat exists, the said central controller can communicate the actions or threat so concluded to the appropriate security personnel and facilities for which the system has been established.
- 105 (NEW) A system as located at the entrance or gate to a facility, such as a sports arena, said system with a card reader/ writer, for the purpose of reading from said facility, an entrance/ performance attendance ticket, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, having read the said information stored on said magnetic recording strip or recording means and observing from said sensor and information as defined in claim 4, for storage by the local controller, can carryout communications of said information to said central controller for recording and storage of said information and for said central controller to conduct analyses for determination whether to allow or deny entrance by the holder of said

ticket after which, the said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

106 (NEW) A system, located at the entrance or gate to a facility, such as a sports arena, said system with a card reader/ writer, for the purpose of reading from said ticket having a magnetic recording strip as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, or printing means as defined in claim 11, having read the said information stored on said magnetic recording strip or recording means for storage by the local controller and communications of said information to said central controller for recording and storage of said information and said central controller conducts analyses for determination of allowed alcohol limit after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6 and includes writing to the said magnetic recording strip or recording means or printing on said ticket with said printing means, the alcohol limit with the initial purchased alcohol amount indicating zero purchased.

107 (NEW) A system, located at a concession or sales facility, such as a beer selling counter, said system with a card reader for the purpose of reading from said ticket having a magnetic recording strip as defined in claim 7, the said information stored on said magnetic recording strip for storage by the local controller and said system with an input device for entry of and/ or request by said holder of said ticket for the purchase of a specific amount of alcohol, such as beer, and the communications of said information to said central controller for recording and storage of said information can carryout analyses for determining total amount of alcohol purchased including current request and all previous requests recorded to that ticket and using fuzzy logic comparing said total to limit

amount recorded on said ticket can determine to allow or deny, according to being under or over said limit, the said purchases by the holder of said ticket after which said determination is communicated by the central controller to the local controller for display on output devices as defined in claim 6 including, if purchase is denied, printing "VOID" on the said ticket and/ or recording "NO SALE" on the said magnetic strip of said ticket and/ or displaying "NO SALE" on said output computer video display screen, and/ or in voice over said speaker saying "NO SALE", and said central controller also communicated to local controller of a camera means, which is located such that it is capable of observing the seat location indicated on said ticket.

108 (NEW) A system with said microphones as defined in claim 30 interfaced to a local controller, with said local controller having fuzzy logic capable of detecting sound from said microphones said local controller can determine the direction of said sound and with such determination the local controller being able to command the said camera means controls for pointing, focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera said local controller can command the said camera means to observe what is in the direction from which the sound originated and to report those observations to the said central controller.

109 (NEW) A system with said microphones as defined in claim 30 interfaced to a local controller, with said local controller having fuzzy logic capable of detecting sound from said microphones can communicate that sound to the central controller for analyses determining the speech, text, and meaning of key phrases and words, such as "bomb" and if such analyses detects a threatening phrase or word, the central controller fuzzy logic can decide to instruct the local controller to command the said camera means controls for pointing,

focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera with which said commands the said camera means can observe what action or actions is or are occurring in the direction from which the text originated and to report those observations to the said central controller.

110 (NEW) A system with central controller with analysis fuzzy logic and methods as defined in claims 12, 14, 16, 18, and 20, with these intelligent said analyses means can interpret those data stored in the said databases of the speech and facial observations made by said camera means and communicated by said local controller, to the said central controller for identification by said central controller of person or persons and/ or activities for potential threat and by using said analysis comparisons to related databases of audio, visual and speech and text information to which the said central controller is connected via the Internet WEB, or by hardwired land, or telephonic, or wireless links the said Camera System means can learn of information of known terrorist person or persons and/ or known threats and can decide to continue searching in the data transmitted to the central controller by the local controller, said data from observations by the camera means, to detect such person, or persons or threats by matching the observations to the learned information and if so detected, can so inform security personnel and systems.

111 (NEW) A system, located at the entrance or gate to a facility, such as an airport or flight departure area or the like, said system with a card reader/ writer, for the purpose of reading from said facility entrance identity card and/or flight passenger ticket, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as

defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said ticket or identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

112 (NEW) A system, located at the entrance or gate to a facility such as an apartment building, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

113 (NEW) A system, located at the entrance or gate to a facility, such as a commercial building, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central

controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

114 (NEW) A system, located at the entrance or gate to a facility, such as a gated community, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

115 (NEW) A system, located at the entrance or gate to a facility, such as a condominium, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is

communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

116 (NEW) A system, located at the entrance or gate to a high security facility, such as a detention or jail, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

117 (NEW) A system, located at the entrance or gate to a secret operations facility, such as a research center or laboratory or document depository, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

118 (NEW) A system, located at the entrance or gate to a country or place, such as a border crossing or the like, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card or passport, having a magnetic recording strip, as defined in claim 7, or other recording means, as defined in claim 8 and claim 9, the said information stored on said magnetic recording strip or recording means and observing from sensors for information as defined in claim 4, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said central controller can conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 6.

119 (NEW) A system, located at the entrance or gate to a hospital or health facility, such as a clinic or the like, said system with a card reader/ writer, for the purpose of reading from said facility entrance/ identity card or health insurance card, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said sensors, information for storage by the local controller and communications of said information to said central controller for recording and storage of said information and for said central controller to conduct analyses for determination whether to allow or deny entrance by the holder of said identity card after which said determination is communicated by the central controller to the said local controller for display on output devices as defined in claim 48.

120 (NEW) A system, located at the entrance or gate to a country or place, such as a border crossing or the like, said system with a card reader/



writer, for the purpose of reading from said facility entrance/ identity card or passport, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said plurality of said camera means and sensors, information, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said plurality of camera means being arranged so as to observe the occupants in several vehicles including the vehicle closest to the said gate or entrance.

121 (NEW) A system, located at a line of vehicles, such as at roadside policing and inspection arrangements such as the "RIDE, reduce impaired driving everywhere" programs for the detection of vehicle driver alcoholic intoxication or drug abuse or the like, said system with a card reader/ writer, for the purpose of reading a drivers license, having a magnetic recording strip, as defined in claim 49, or other recording means, the said information stored on said magnetic recording strip or recording means and observing from said plurality of said camera means and sensors, information, for storage by the local controller and communications of said information to said central controller for recording and storage of said information, said plurality of camera means being arranged so as to observe the occupants in several vehicles including the vehicle closest to the said policing and inspection arrangements.

122 (NEW) A systems, including fuzzy logic capable of facial analyses to determine if current viewed facial image matches one of the stored facial images as defined in claim 77 and if not so matched said fuzzy logic capable of disabling one or more of said vehicle components.

123 (NEW) A system as defined in claim 76, including fuzzy logic capable of analyses determining the impairment and the level of said impairment as defined in claim 62, of the person attempting to start or drive said vehicle and if or when said impairment is determined, the said level of impairment and the vehicle's GPS location is reported report by wireless communications to the central controller for notification to the proper authorities and the said system can disable said vehicle and said system can continue said analyses and said reporting.

124 (NEW) A system with a camera and sensors including a plurality of motion, heat which could include static and/ or video observation and recording systems, sound, vibration and air quality sensors for detection of people, animals, things or actions that are not of the regular normal occurrence or could pose a threat.

125 (NEW) A system as defined in claims 13, and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous video observations in one or more spectral ranges of any such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

126 (NEW) A system as defined in claims 13, and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous video observations in one or more spectral ranges and specifically of the visible and of the thermal far infrared ranges of any such as faces of persons and/ or the environment in which those persons are observed, and/ or audio data such as speech, voice to text conversion, and/ or text

data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

127 (NEW) A system as defined in claims 15 and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of video observations in one or more spectral ranges of any data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

128 (NEW) A system as defined in claims 15 and 83 said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of video observations in one or more spectral ranges and specifically of the visible and of the thermal far infrared ranges of any data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

129 (NEW) A system as defined in claims 21 and 83 said security camera means system can include a plurality of such systems with video observations in one or more spectral ranges each of which can be observing the same or different said images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings and from the same or different

locations, all of which can communicate with the said central facility controller.

130 (NEW) A system as defined in claims 30 and 83 said input device including a "closed circuit" security camera which said camera can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum and microphones such that the microphones are arranged so that one detects sounds originating in from front of the camera and the other detects sounds originating from behind the camera.

131 (NEW) A system as defined in claims 4, and 83 said input device can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters including but not limited to observing an individual person, animal, thing or action, groups of said people, animals things or actions, the recording of which parameters the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.

132 (NEW) A system as defined in claims 4, and 83 said input device can observe and record said observation in a spectral range including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and with/ or without microphones, with magnetic tape

recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters including but not limited to observing groups of said people, specifically; audiences, crowds and/ or audience and/ or crowd actions, and observing individuals that are connected to and/ or part of said group or crowd or audience, the recording of which parameters the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat and/ or riot and/ or public disturbance or violent behavior.

133 (NEW) A system as defined in claims 3 and 93 said input device can observe and record said observation in one or more spectral range, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed said parameters specifically one of which is the observation of the appearance and/ or actions, of a person from which parameters the system using fuzzy logic matches those aspects of the current observations including but not limited to the comparison of observations in the visible and thermal infrared heat range for the purpose of assessing the existence, inference and/ or the measurement of an aura and/ or image representations of that person relating to said person's level of alcohol consumption, state of intoxication and/ or threat or potential threat and/ or public disturbance or violent behavior.

134 (NEW) A system as defined in claim 93 said input device can observe and record said observations in one or more spectral range, and with/ or without microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the

local controller for providing information on a plurality of parameters related to the local area observed said parameters one of which specifically is the observation of the appearance and/ or actions, of groups and/ or crowds of persons from which parameters the system using fuzzy logic matches those aspects of the current observations including but not limited to the comparison of observations in the visible and thermal infrared, for the purpose of assessing the existence, inference and/ or the measurement of an aura and/ or image representations of said persons and/ or crowds relating to the threat or potential threat and/ or public disturbance and/ or violent behavior and/ or riot or potential for riot from which said assessment, the system using fuzzy logic matching those aspects of the current observations, predicts the level of said threat, disturbance, violent behavior or riot.

135 (NEW) A system as defined in claims 3 and 83 said camera and said sensors include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things.

136 (NEW) A system as defined in claims 3 and 83, said sensors including pressure sensitive mats, pads and switches for the detection of said occurrences and motion of the feet of said people, animals or things.

137 (NEW) A system as defined in claims 13 and 93 said central controller analysis includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous observations of the patterns, rhythm, cadence, frequency, and characteristics to determine and identify such foot motions and relationships to detect the condition, including but not limited to the physical, emotional, staggering, and intoxication levels of the particular person, animal ore thing who's said foot motion is being detected.

138 (NEW) A system as defined in claim 93 in which said observations and recordings of said faces, voices, actions, said sensors include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things, are specifically applied to the environment of drinking establishments, bars, nightclubs, dance clubs and entertainment venues in which said observations and recordings are retained and/ or exchanged with other establishments for the purpose of identifying said people, individuals, audiences, crowds and/ or their actions that could be a threat or potential threat and/ or riot and of public disturbance at said establishments.

139 (NEW) A system as defined in claim 93 in which said observations and recordings of said faces, voices, actions, include pressure sensitive vibration and motion sensors for the detection of the occurrence and motion of the feet of people, animals or things and fuzzy logic analyses as apply to drinking establishments, bars, nightclubs, dance clubs, entertainment venues and sports venues in which said observations and recordings are retained and/ or exchanged with an established group or "POD" of similar such establishments where by patrons of one such "POD" establishment can be identified by other members of said POD, thereby allowing said members of the POD to be alerted to the identity of said persons, animals or things representing said threat of potential threat for which said members could take appropriate action against such persons, animals or things and/or the said threat or potential threat.

140. (NEW) A security camera means observational system comprising:  
a) a local controller, hardware, software, firmware and fuzzy logic including wireless or wired communications interface for communicating with a central controller facility;

- b) a camera audio and video recording device connected to said local controller for observing and recording and communicating to said central controller;
- c) a central controller with hardware, software, firmware and fuzzy logic for database storage and analyses of images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings within view and listening of the said camera device as communicated from said camera devices;
- d) a central controller with hardware, software, firmware and fuzzy logic for accessing both real-time data and historic data from related databases from sources of governments, of multimedia news agencies, of associated data for the purpose of conducting analyses for assessment and detection of threat or potential threat;
- e) an input device connected to said local controller for reading from or writing to magnetic or electronic storage data means and/ or a manually entering data means for input to said local controller;
- f) an output device associated with said local controller for displaying visually or audibly or in printed means for presenting a selection of information and threat analysis results received from said central facility controller;
- g) a camera movement device and interface to the local controller for three axis pointing, focusing/ zooming and turn on/ off control of the said camera device.

141. (NEW) A system as defined in claim 140, said input device including a "closed circuit" security camera and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed.



142. (NEW) A system as defined in claim 141, said sensors including a plurality of motion, heat, sound, vibration and air quality sensors for detection of people, animals, things or actions that are not of the regular normal occurrence or could pose a threat.
143. (NEW) A system as defined in claim 142, said actions are such as not to normally occur and thus are unusual and in the security sense, warrant examination more closely, and said threat is a thing, person, animal, action, sound, speech or perpetrated act that could be interpreted as a danger to a place, person, thing, entity, government or country.
144. (NEW) A system as defined in claim 141, said local controller including an input keyboard, key pad, touch screen manual device, a magnetic card or smart card reader/ writer, a display, a voice I/O interface, and interface means.
145. (NEW) A system as defined in claim 141, said local controller including an output device being a computer video screen and speaker and indicator lights and printing means, magnetic or smart card recorder means, for providing or indicating information regarding validity or acceptance of a request for entrance or access or purchase based on analyses by said central controller.
146. (NEW) A system as defined in claim 140, said central controller monitoring and storing in databases the information communicated by the local controller, the data from the local camera and sensor means and analyzing this information and comparative information from related databases.

147. (NEW) A system as defined in claim 140, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
148. (NEW) A system as defined in claim 140, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing "live" real-time related database sources of visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the existence of a threat or potential threat.
149. (NEW) A system as defined in claim 140, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress, actions and movement interpretation, image matching, speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing live real-time related database sources of visual data such as faces of persons, and/ or audio data such as speech, and/or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the existence of a threat or potential of a threat.

150. (NEW) A system as defined in claim 140, said central controller can communicate to the local controller of said camera means commands for said pointing focusing/ zooming, viewing direction, viewing zoom magnification and turning on/ off camera controls.
151. (NEW) A system as defined in claim 140, said local controller incorporates part or all of said central controller functions and capabilities such that the said camera means could be a stand alone complete Camera System means utilizing microelectronic designs, circuitry miniaturization and solid state memory systems.
152. (NEW) A system as defined in claim 140, said local controller utilizing fuzzy logic and microelectronic designs, circuitry miniaturization and solid state memory systems, incorporates part or much of the said central controller functions and capabilities such that the said camera means becomes more independent from the central controller and capable of conducting much of the analyses and response function directly.
153. (NEW) A security camera means observational system comprising:
- a. a local controller, hardware, software, firmware and fuzzy logic including wireless or wired communications interface for communicating with a central controller facility;
  - b. a camera audio and video recording device connected to said local controller for observing and recording and communicating to said central controller;
  - c. a central controller with hardware, software, firmware and fuzzy logic for database storage and analyses of images and sounds from observed actions, appearances, activities, speech and movements of objects, animals, persons and surroundings within

view and listening of the said camera device as communicated from said camera devices;

- d. a central controller with hardware, software, firmware and fuzzy logic for accessing both real-time data and historic data from related databases from sources of governments, of multimedia news agencies, of associated data for the purpose of conducting analyses for assessment and detection of threat or potential threat;
- e. an input device connected to said local controller for reading from or writing to magnetic or electronic storage data means and/ or a manually entering data means for input to said local controller;
- f. an output device associated with said local controller for displaying visually or audibly or in printed means for presenting a selection of information and threat analysis results received from said central facility controller;
- g. a camera movement device and interface to the local controller for three axis pointing, focusing/ zooming and turn on/ off control of the said camera device.

154. (NEW) A system as defined in claim 153, said central controller analyses includes a plurality of analyses logic including the use of fuzzy logic and comparisons accessing related databases of stored previous visual data such as faces of persons, and/ or audio data such as speech, voice to text conversion, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of assessing the level of sobriety due to drug or alcohol use and the existence of a resulting threat or potential threat.

155. (NEW) A system as defined in claim 153, said central controller analyses includes a plurality of analyses methods including voice stress, emotion stress, actions and movement interpretation, image matching,

speech/ voice to text conversions, lip reading to text conversion, deep extraction of information from text, facial identity matching, voice identity matching and personal data matching and comparisons accessing stored related database sources of stored previously of visual data such as faces of persons, and/ or audio data such as speech, and/ or text data such as key words or phrases from which the system using fuzzy logic matches those aspects of the current observations for the purpose of identifying people, animals, things, actions, speech, and stress that indicate the level of sobriety due to drug or alcohol use and the existence of a resulting threat or potential of a threat.

156. (NEW) A system as defined in claim 153, for the detection and analyzes of alcohol or drug intoxication or impairment of a person or persons for the detection of person or persons as a potential threat to the public and/or to property and/or to themselves.
157. (NEW) A system as defined in claim 156, said analyzes determining a level of intoxication or impairment so as to assign a numerical value to said level, as an indication within a standard set of said levels as to the said intoxication or impairment of the person or persons similar to the application of breathalyzer standards used to describe the level of alcohol intoxication as determined by chemical measure of the breath of a person.
158. (NEW) A system as defined in claim 153 for the detection of health related problems such as heart attack, diabetic or epileptic seizure, drug use or abuse, drunkenness and the like.
159. (NEW) A system as defined in claim 140, said input device including a camera and/ or a "closed circuit" security camera which said camera can observe and record said observation in a spectral range

including but not limited to the visible, the near infrared, the infrared, the far thermal or heat range infrared, and the ultraviolet regions of the electromagnetic spectrum, and microphones, with magnetic tape recording and computer database data storage means, and a plurality of sensors, coupled to the local controller for providing information on a plurality of parameters related to the local area observed.